

29/01/2005

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

| | | | |
|--------------|----|--------|--|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | | "Ask CAS" for self-help around the clock |
| NEWS | 3 | SEP 01 | New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! |
| NEWS | 4 | OCT 28 | KOREAPAT now available on STN |
| NEWS | 5 | NOV 30 | PHAR reloaded with additional data |
| NEWS | 6 | DEC 01 | LISA now available on STN |
| NEWS | 7 | DEC 09 | 12 databases to be removed from STN on December 31, 2004 |
| NEWS | 8 | DEC 15 | MEDLINE update schedule for December 2004 |
| NEWS | 9 | DEC 17 | ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected |
| NEWS | 10 | DEC 17 | COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected |
| NEWS | 11 | DEC 17 | SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected |
| NEWS | 12 | DEC 17 | CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected |
| NEWS | 13 | DEC 17 | THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB |
| NEWS | 14 | DEC 30 | EPFULL: New patent full text database to be available on STN |
| NEWS | 15 | DEC 30 | CAPLUS - PATENT COVERAGE EXPANDED |
| NEWS | 16 | JAN 03 | No connect-hour charges in EPFULL during January and February 2005 |
| NEWS | 17 | JAN 26 | CA/CAPLUS - Expanded patent coverage to include the Russian Agency for Patents and Trademarks (ROSPATENT) |
| NEWS EXPRESS | | | JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005 |
| NEWS HOURS | | | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | | | General Internet Information |
| NEWS LOGIN | | | Welcome Banner and News Items |
| NEWS PHONE | | | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | | | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:01:50 ON 29 JAN 2005

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:02:04 ON 29 JAN 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 JAN 2005 HIGHEST RN 821767-00-4

DICTIONARY FILE UPDATES: 27 JAN 2005 HIGHEST RN 821767-00-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

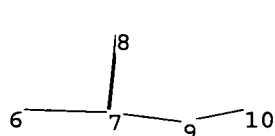
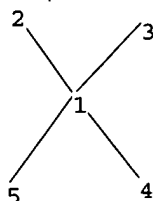
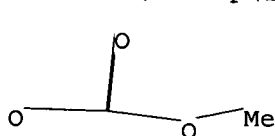
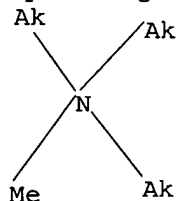
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10776368.str



chain nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

1-2 1-3 1-4 1-5 6-7 7-8 7-9 9-10

exact/norm bonds :

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1-2 1-3 1-4 6-7 7-8 7-9
exact bonds :
1-5 9-10

Match level :

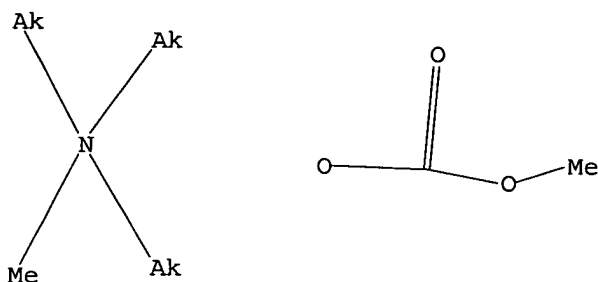
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:02:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 5033 TO ITERATE

19.9% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 96407 TO 104913
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 16:02:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 97843 TO ITERATE

100.0% PROCESSED 97843 ITERATIONS
SEARCH TIME: 00.00.02

46 ANSWERS

L3 46 SEA SSS FUL L1

=> FIL CAPLUS
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION

29/01/2005

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FULL ESTIMATED COST

161.33

161.54

FILE 'CAPLUS' ENTERED AT 16:02:28 ON 29 JAN 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 29 Jan 2005 VOL 142 ISS 6

FILE LAST UPDATED: 28 Jan 2005 (20050128/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4

24 L3

=> s 13/p

L5

13 L3/P

=> s 14 and py<=2001

21605883 PY<=2001

L6

23 L4 AND PY<=2001

=> s 16 and amine

252121 AMINE

238672 AMINES

386481 AMINE

(AMINE OR AMINES)

L7

1 L6 AND AMINE

=> s 16 and ester

556171 ESTER

414561 ESTERS

776373 ESTER

(ESTER OR ESTERS)

L8

2 L6 AND ESTER

=> d 15 ibib abs hitstr tot

L5 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:898606 CAPLUS

DOCUMENT NUMBER: 141:366216

TITLE: Process using a cyclic carbonate reactant and beta-hydroxyurethanes thereby obtained

INVENTOR(S): Van Holen, Jurgen

PATENT ASSIGNEE(S): UCB S.A., Belg.

SOURCE: Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

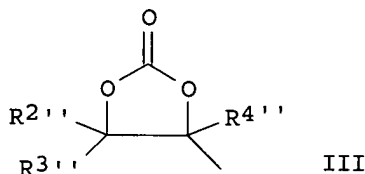
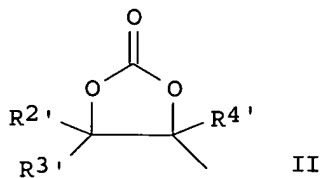
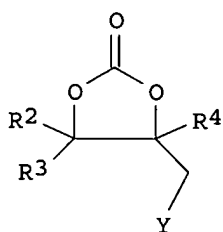
29/01/2005

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DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|--|---------------------|-----------------|------------|
| EP 1471053 | A2 | 20041027 | EP 2004-7925 | 20040401 |
| EP 1471053 | A3 | 20041201 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| US 2004236119 | A1 | 20041125 | US 2004-821936 | 20040412 |
| PRIORITY APPLN. INFO.: | | | EP 2003-9307 | A 20030424 |
| OTHER SOURCE(S): | CASREACT 141:366216; MARPAT 141:366216 | | | |

GI

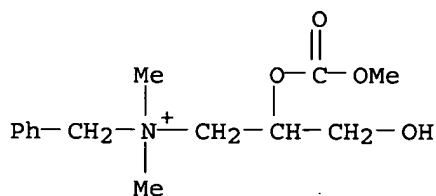


AB A component (A) contains at least one cyclic carbonate group having the general formula I, wherein R2, R3 and R4 are, each independently, chosen from hydrogen, alkyl, alkenyl, wherein alkyl and alkenyl may contain from 0 to 8 ether bridges, and/or may be substituted by one or more aryl, hydroxyl group, and/or cyclic carbonate group of formula II, wherein R2', R3' and R4' are, each independently, chosen from hydrogen, alkyl, alkenyl, wherein alkyl and alkenyl may contain from 0 to 8 ether bridges, and/or may be substituted by one or more aryl, hydroxyl group and/or Y group; wherein Y is an electrophilic group selected from ammonium N+(R1)(R1')(R1'')Z- and phosphonium P+((O)nR1)((O)nR1')((O)nR1'')Z-, wherein each n, independently, is 0 or 1 and each R1, R1' and R1'', independently, represents an alkyl optionally substituted by one or more aryl, Y group and/or cyclic carbonate group of formula III, wherein R2'', R3'' and R4'' are, each independently, chosen from hydrogen, alkyl, alkenyl, wherein alkyl and alkenyl may contain from 0 to 8 ether bridges, and/or may be substituted by one or more aryl and/or hydroxyl group; Z- represents an anion; Component (A) is reacted with ammonia, hydrazine or an org. compd. (B) contg. at least one reactive nucleophilic function X wherein each X is, independently, chosen from a primary amino or hydrazo, secondary amino or hydrazo, thiol, hydroxy, and/or oxime; such that the cyclic carbonate is opened and that an org. compd. (C) contg. at least one unit of the general formula -X-CO-O- is formed. Such reactions permit to obtain urethane groups useful in polymer prepn., such as polyurethanes, or other urethane-contg. polymers.

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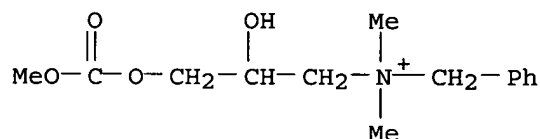
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IT 777094-84-5P 777094-85-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(process using a cyclic carbonate reactant and beta-hydroxyurethanes
thereby obtained)
RN 777094-84-5 CAPLUS
CN Benzenemethanaminium, N-[3-hydroxy-2-[(methoxycarbonyl)oxy]propyl]-N,N-
dimethyl-, chloride (9CI) (CA INDEX NAME)



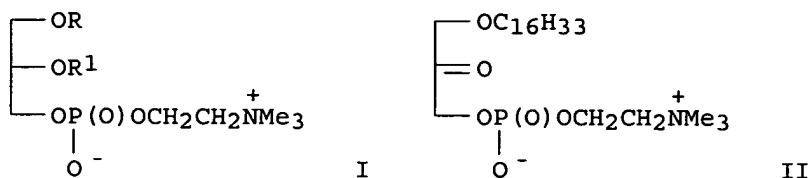
● Cl⁻

RN 777094-85-6 CAPLUS
CN Benzenemethanaminium, N-[2-hydroxy-3-[(methoxycarbonyl)oxy]propyl]-N,N-
dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

L5 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:13255 CAPLUS
DOCUMENT NUMBER: 126:104308
TITLE: Synthesis and antihypertensive activity of some
1-O-alkylglycero-3-phosphocholine derivatives
AUTHOR(S): Noskov, V. G.; Shishkov, S. V.; Kruglyak, Yu. L.;
Kiselevskii, M. V.; Dobryanskii, V. S.; Maksimtseva,
N. N.; Sokal'skii, M. A.
CORPORATE SOURCE: GNII org. Khim. Tekhnol., Moscow, Russia
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1996), 30(10), 3-5
CODEN: KHFZAN; ISSN: 0023-1134
PUBLISHER: Izdatel'stvo Folium
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI



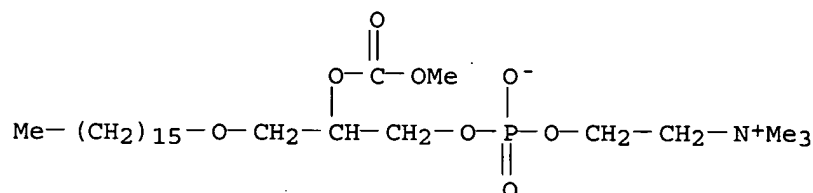
AB Title compds. I [R = C₁₆H₃₃, C₁₈H₃₇, CH₂(CF₂)₆H, CH₂CF₂(OCF₂CF₂)₃OCF₃; R₁ = H] were prepared and converted to I (same R; R₁ = acyl, Me). Also prepared was ketone II. The antihypertensive activities of the 3 least toxic compds. were given.

IT 185799-35-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 185799-35-3 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-[(hexadecyloxy)methyl]-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:248889 CAPLUS

DOCUMENT NUMBER: 124:343749

TITLE: Cardioprotective tocopherol analogs

INVENTOR(S): Grisar, J. Martin; Petty, Margaret A.; Bolkenius, Frank

PATENT ASSIGNEE(S): Hoechst Marion Roussel, Inc., USA

SOURCE: U.S., 12 pp., Cont. of U. S. Ser. No.120,146, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

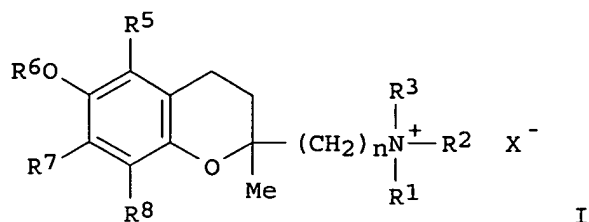
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 5500444 | A | 19960319 | US 1994-313657 | 19940927 |
| PRIORITY APPLN. INFO.: | | | US 1994-313657 | B1 19940927 |
| | | | US 1993-120146 | B2 19930910 |
| | | | US 1993-65058 | B1 19930520 |
| | | | US 1992-985501 | B1 19921201 |
| | | | US 1992-840482 | B2 19920224 |
| | | | US 1991-774125 | B1 19911011 |
| | | | US 1991-686008 | B1 19910412 |
| | | | US 1990-564670 | B1 19900806 |
| | | | US 1989-436398 | 19891114 |

OTHER SOURCE(S): MARPAT 124:343749

GI



AB This invention relates to quaternary ammonium salts of certain 2H-1-benzopyran derivs. I, to the intermediates and processes useful for their preparation, to their free-radical scavenger and cellular protective properties and to their end-use application as therapeutic agents. Compds. I can be racemic or R- and S-enantiomers, wherein R1, R2, R3 individually are C1-6-alkyl, X is halide or R4SO3- with R4 being H, C1-6-alkyl, aryl or aralkyl; R5 = H or C1-6-alkyl; R6 = H or C(O)R, where R is H or C1-9-alkyl; R7 = H or C1-6-alkyl; R8 = H or C1-6-alkyl and n = 1-6.

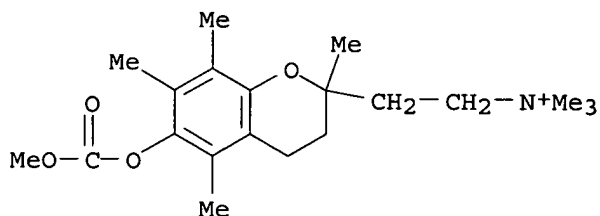
IT 176796-08-0P 176796-10-4P 176796-16-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of cardioprotective tocopherol ammonium salt analogs)

RN 176796-08-0 CAPLUS

CN 2H-1-Benzopyran-2-ethanaminium, 3,4-dihydro-6-[(methoxycarbonyl)oxy]-N,N,N,2,5,7,8-heptamethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 176796-10-4 CAPLUS

CN 2H-1-Benzopyran-2-ethanaminium, 3,4-dihydro-6-[(methoxycarbonyl)oxy]-N,N,N,2,5,7,8-heptamethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

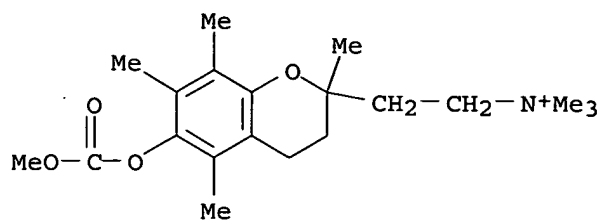
CM 1

CRN 176796-09-1

CMF C20 H32 N O4

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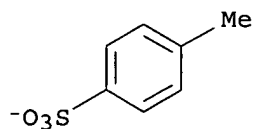
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CM 2

CRN 16722-51-3

CMF C7 H7 O3 S



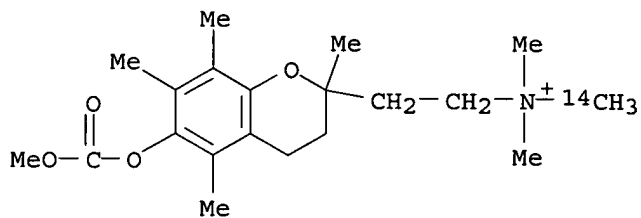
RN 176796-16-0 CAPLUS

CN 2H-1-Benzopyran-2-ethanaminium, 3,4-dihydro-6-[(methoxycarbonyl)oxy]-N,N,2,5,7,8-hexamethyl-N-(methyl-14C)-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 176796-15-9

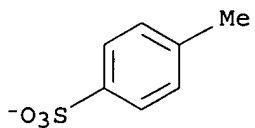
CMF C20 H32 N O4



CM 2

CRN 16722-51-3

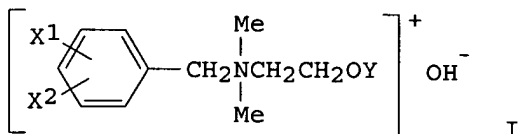
CMF C7 H7 O3 S



L5 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1991:553091 CAPLUS
 DOCUMENT NUMBER: 115:153091
 TITLE: Preparation of quaternary ammonium plant growth promoters.
 INVENTOR(S): Suzuki, Akinori; Hyeon, Suong B.; Kajita, Toshio; Furushima, Masakazu; Yoshinaka, Shigeo; Suzuki, Takashi; Oda, Mitsunori; Tanaka, Akinori
 PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan
 SOURCE: Can., 34 pp.
 CODEN: CAXXA4
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|------------|-----------------|----------|
| CA 1279769 | A1 | 19910205 | CA 1986-524887 | 19861210 |
| PRIORITY APPLN. INFO.: | | | CA 1986-524887 | 19861210 |
| OTHER SOURCE(S): | MARPAT | 115:153091 | | |

GI

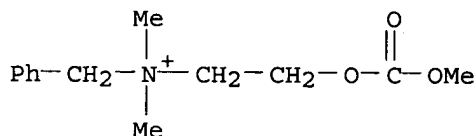


AB I (X1 = H, Cl, Me, CF₃, NO₂, MeO, tert-Bu; X2 = H; X1 = X2 = Cl or Me; Y = H, C2-6 alkylcarbonyl, Bz, N-phenylcarbamoyle, N-3,4-dichlorophenylcarbamoyle, chloropropylcarbonyl, methoxycarbonyl, carbamoyle or methacryloyl) are prepared as plant growth promoters for application to stalks, leaves, roots, seeds, or soil. Treating 2-chlorobenzyl chloride with dimethylethanolamine in ether gave I (X1 = 2-Cl; X2 = Y = H; Cl salt) as plant growth promoter.

IT 115786-92-0P 115786-98-6P 115787-10-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as plant growth promoter)

RN 115786-92-0 CAPLUS

CN Benzenemethanaminium, N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



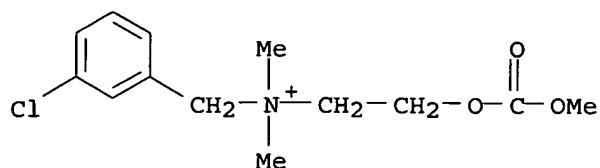
● Br⁻

RN 115786-98-6 CAPLUS

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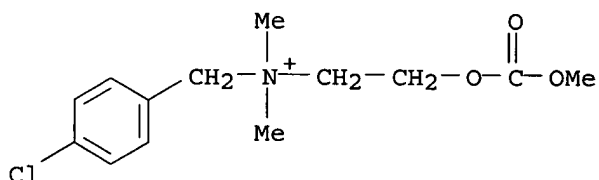
CN Benzenemethanaminium, 3-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 115787-10-5 CAPLUS

CN Benzenemethanaminium, 4-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

L5 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:153886 CAPLUS

DOCUMENT NUMBER: 110:153886

TITLE: Process for promoting plant growth with benzyldimethyl(hydroxyethyl)ammonium salts and derivatives, use of the same, and compositions containing them

INVENTOR(S): Suzuki, Akinori; Hyeon, Suong Be; Kajita, Toshio; Furushima, Masakazu; Yoshinaka, Shigeo; Suzuki, Takashi; Oda, Mitsunori; Tanaka, Akinori

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Braz. Pedido PI, 46 pp.

CODEN: BPXXDX

DOCUMENT TYPE: Patent

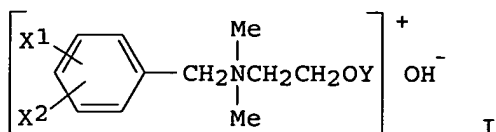
LANGUAGE: Portuguese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|------------|-----------------|----------|
| BR 8606167 | A | 19880705 | BR 1986-6167 | 19861211 |
| PRIORITY APPLN. INFO.: | | | BR 1986-6167 | 19861211 |
| OTHER SOURCE(S): | MARPAT | 110:153886 | | |

GI



AB Salts (e.g., halides) derived from quaternary ammonium hydroxides I [X1 = H, Cl, Me, CF₃, NO₂, OMe, CMe₃; X2 = H; or X1 = X2 = Cl or Me; Y = H, C2-6 alkylcarbonyl, Bz, CONHPh, CONHC₆H₃Cl_{2-3,4}, chloropropylcarbonyl, CO₂Me, CONH₂, COCMe:CH₂] are prepared for use as plant growth promoters. A mixture of 30 mmol each 2-ClC₆H₄CH₂Cl and Me₂NCH₂CH₂OH in 10 mL Et₂O was kept at room temperature for 2 days to precipitate crystalline

2-ClC₆H₄CH₂N⁺Me₂CH₂CH₂OH Cl⁻ (II) in

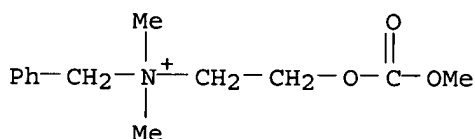
48% yield. Soybean plants immersed in 10 ppm aqueous II for 20 h prior to potting for 10 days had dried leaf and stem wts. of 165% (vs. control), and root wts. of 200%.

IT 115786-92-0P 115786-98-6P 115787-10-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as plant growth promoter)

RN 115786-92-0 CAPLUS

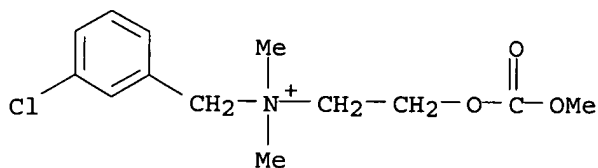
CN Benzenemethanaminium, N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 115786-98-6 CAPLUS

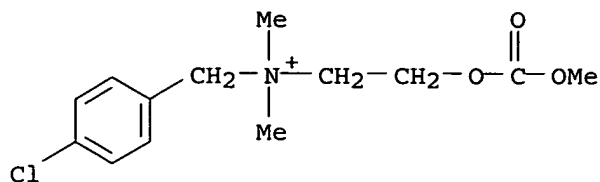
CN Benzenemethanaminium, 3-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 115787-10-5 CAPLUS

CN Benzenemethanaminium, 4-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

L5 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:2902 CAPLUS

DOCUMENT NUMBER: 110:2902

TITLE: Plant growth regulators containing quaternary ammonium salts

INVENTOR(S): Suzuki, Akinori; Gen, Jobai; Kajita, Toshio; Furushima, Masakazu; Yoshinaka, Shigeo; Suzuki, Takashi; Oda, Akinori; Tanaka, Akinobu

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 63135304 | A2 | 19880607 | JP 1986-279839 | 19861126 |
| PRIORITY APPLN. INFO.: | | | JP 1986-279839 | 19861126 |
| OTHER SOURCE(S): | | | MARPAT 110:2902 | |

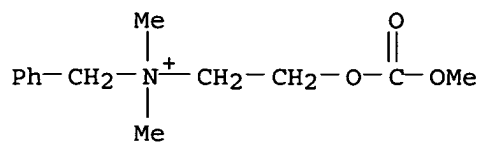
AB Plant growth regulators containing nontoxic salts of [XnC₆H₅-nCH₂(Me₂)N⁺(CH₂)₂OY] OH⁻ (I; X = H, Me, Cl, CF₃, MeO, Me₃C, NO₂; Y = H, C₂-6 alkylcarbonyl, PhCO, N-phenylcarbonyl, CO₂Me, methacryloyl, chloropropylcarbonyl, 3,4-Cl₂C₆H₃CO; except X = H ≠ H) are described. A mixture of Me₂N(CH₂)₂OH and 2-ClC₆H₄CH₂Cl in ether was kept at room temperature for 2 days to give 48% [2-ClC₆H₄CH₂N⁺(Me₂)(CH₂)₂OH] Cl⁻, which at 10 mM showed >15% increase of photosynthesis in wheat crop. A wettable powder was formulated containing PhCH₂N⁺(Me₂)(CH₂)₂O₂CPr 50, Na dodecylbenzenesulfonate 2, polyoxyethylenealkyl allyl ether 1, talc 10, and bentonite 37 g.

IT 115786-92-0P 115786-98-6P 115787-10-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as plant growth regulator)

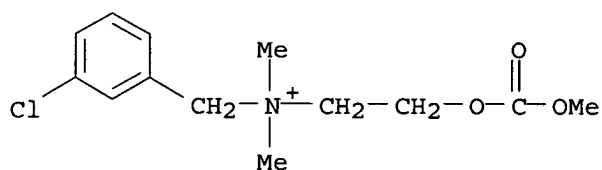
RN 115786-92-0 CAPLUS

CN Benzenemethanaminium, N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

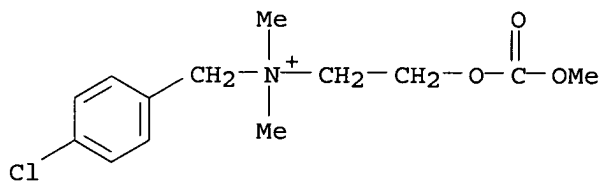
RN 115786-98-6 CAPLUS

CN Benzenemethanaminium, 3-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 115787-10-5 CAPLUS

CN Benzenemethanaminium, 4-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

L5 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:585473 CAPLUS

DOCUMENT NUMBER: 109:185473

TITLE: Plant growth regulators containing quaternary ammonium salts

INVENTOR(S): Suzuki, Akinori; Gen, Jobai; Tanaka, Akinobu; Furushima, Masakazu

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

29/01/2005

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FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 63077801 | A2 | 19880408 | JP 1986-217994 | 19860918 |
| AU 595269 | B2 | 19900329 | AU 1986-66334 | 19861209 |
| AU 8666334 | A1 | 19880609 | | |

PRIORITY APPLN. INFO.: JP 1986-217994 19860918

OTHER SOURCE(S): MARPAT 109:185473

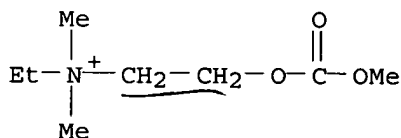
AB Plant growth regulators containing RMe₂N+[(CH₂)₂OX] OH- (I; R = C2-5 alkyl, C2-5 alkenyl, alkynyl; X = C2-8 alkylcarbonyl, PhCO, ClCH₂CO, MeOCO, H₂NCO, PO₃H₂) and their salts are described. A mixture of PrMe₂N+(CH₂)₂OH Br- and Ac₂O was heated at 100° to give 72.6% PrMe₂N+(CH₂)₂OAc Br-. H₂C:CMech₂(Me₂)N+(CH₂)₂OAc Cl-, at 30 g/10 are, showed 43% increase of rice yield. A wettable powder was formulated containing H₂C:CHCH₂(Me₂)N+(CH₂)₂OCOPh Cl- 50, Na dodecylbenzenesulfonate 2, polyoxyethylene alkyl allyl ether 1, talc 10, and bentonite 37 g.

IT 106579-40-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as plant growth regulator)

RN 106579-40-2 CAPLUS

CN Ethanaminium, N-ethyl-2-[(methoxycarbonyl)oxy]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

L5 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:493532 CAPLUS

DOCUMENT NUMBER: 109:93532

TITLE: Preparation of glycerides and antitumor agents containing them

INVENTOR(S): Tsushima, Susumu; Kozai, Yoshio

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 82 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 62174011 | A2 | 19870730 | JP 1986-231427 | 19860929 |
| JP 07080766 | B4 | 19950830 | | |

PRIORITY APPLN. INFO.: JP 1985-219874 A1 19851001

AB R1OCH₂CHR₂CH₂XC(O)Y-R₃-ZR₄ [I; R₁ = alkyl, alkylcarbamoyl; R₂ = H,

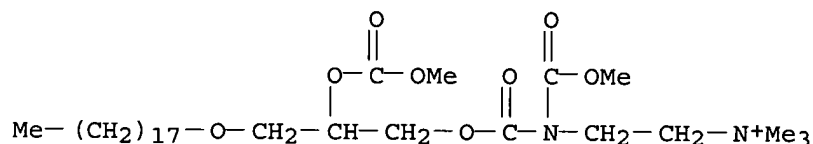
(un)substituted OH, cyclic or (un)substituted NH₂; R₃ = bond, (un)substituted alkylene; R₄ = H, alkyl, aralkyl; X, Y = O, S, (un)substituted NH; Y = X = NH or Y and R₄ form a ring; Z = (un)substituted NH or N-containing heterocycl[yl], useful as antitumor agents, were prepared 2-(Aminomethyl)pyridine and crude 2-O-methyl-3-O-phenoxy carbonyl-1-O-(octadecylcarbamoyl)glycerin [prepared from 2-O-methyl-1-O-(octadecylcarbamoyl)glycerin and PhO₂CCl in CH₂Cl₂ containing pyridine] in CHCl₃ was refluxed 12 h to give 84.7% 2-O-methyl-3-O-[N-(2-pyridylmethyl)carbamoyl-1-O-(octadecylcarbamoyl)glycerin which was N-acetylated with Ac₂O and Et₃N in CHCl₃ under reflux and then quaternized with EtI under reflux to give 3-[N-acetyl-N-(N'-ethylpyridin-2-yl)methyl]carbamoyl-2-methyl-1-(octadecylcarbamoyl)glycerin chloride (II). Injections containing I were prepared II inhibited the proliferation of KB cells with an ED₅₀ of 0.16 µg/mL.

IT 100488-49-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as antitumor agent)

RN 100488-49-1 CAPLUS

CN 2,4,7-Trioxa-9-azaundecan-11-aminium, 9-(methoxycarbonyl)-N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3,8-dioxo-, iodide (9CI) (CA INDEX NAME)



● I -

L5 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN.

ACCESSION NUMBER: 1988:488199 CAPLUS

DOCUMENT NUMBER: 109:88199

TITLE: Preparation of benzyldimethylammonium compounds as plant growth stimulator

INVENTOR(S): Suzuki, Akinori; Hyeon, Suong Be; Kajita, Toshio; Furushima, Masakazu; Yoshinaka, Shigeo; Suzuki, Takashi; Oda, Mitsunori; Tanaka, Akinori

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Eur. Pat. Appl., 39 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------|------|----------|-----------------|----------|
| EP 270701 | A1 | 19880615 | EP 1986-117096 | 19861209 |
| EP 270701 | B1 | 19920311 | | |
| R: DE, ES, FR, GB, IT, NL | | | | |
| US 4929267 | A | 19900529 | US 1986-938872 | 19861208 |
| ES 2039197 | T3 | 19930916 | ES 1986-117096 | 19861209 |

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PRIORITY APPLN. INFO.:

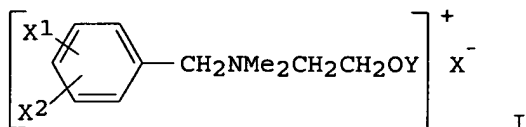
EP 1986-117096

19861209

OTHER SOURCE(S):

CASREACT 109:88199; MARPAT 109:88199

GI



AB The title compds. I (X = anion; X1 = H, Cl, Me, CF3, NO2, MeO, tert-Bu, X2 = H; X1 = X2 = Cl or Me; Y = H, alkylcarbonyl, PhCH2, N-phenylcarbamoyl, etc.) used as salts, are prepared as plant growth stimulators. 2-Chlorobenzyl chloride was added to Me2NCH2CH2OH in Et2O, to give I (X1 = 2-Cl, X2 = Y = H) Cl salt. Treatment with I (X1 = X2 = H, Y = COMe) Br salt (II), at 3 kg/10 are, increased the relative growth rate and net assimilation rate of soybean and corn. A formulation comprised 50 g II, 10 g polyoxyethylene oleyl ether, 10 g triethanolamine lauryl sulfate and 180 g water.

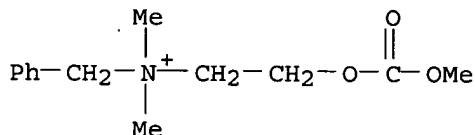
IT 115786-92-0P 115786-98-6P 115787-10-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as plant growth stimulant)

RN 115786-92-0 CAPLUS

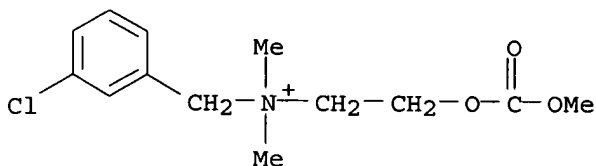
CN Benzenemethanaminium, N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 115786-98-6 CAPLUS

CN Benzenemethanaminium, 3-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

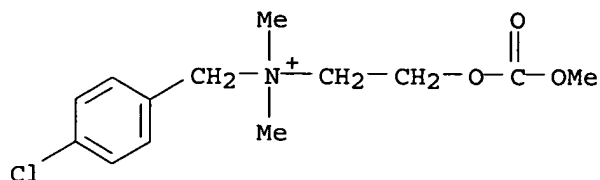


● Cl⁻

RN 115787-10-5 CAPLUS

CN Benzenemethanaminium, 4-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-

dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:63031 CAPLUS

DOCUMENT NUMBER: 106:63031

TITLE: Plant growth promotion

INVENTOR(S): Suzuki, Akinori; Hyeon, Suong Be; Tamano, Akira;
Tanaka, Akinori; Furushima, Masakazu

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| EP 206028 | A1 | 19861230 | EP 1986-107622 | 19860604 |
| EP 206028 | B1 | 19890920 | | |
| R: DE, FR, GB, IT | | | | |
| JP 61282302 | A2 | 19861212 | JP 1985-123812 | 19850607 |
| JP 06072081 | B4 | 19940914 | | |
| CA 1280004 | A1 | 19910212 | CA 1986-510766 | 19860604 |
| AU 8658375 | A1 | 19861211 | AU 1986-58375 | 19860605 |
| AU 592571 | B2 | 19900118 | | |
| CN 86104810 | A | 19870304 | CN 1986-104810 | 19860607 |
| CN 1012609 | B | 19910515 | | |
| US 5032170 | A | 19910716 | US 1990-610441 | 19901105 |
| PRIORITY APPLN. INFO.: | | | JP 1985-123812 | A 19850607 |
| | | | US 1986-870394 | B1 19860604 |

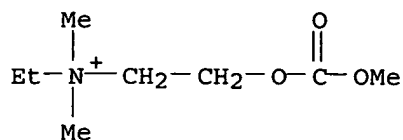
AB The quaternary NH₄ compds. [RNMe₂CH₂CH₂OX]⁺OH⁻ (R = C₂-5 alkyl, alkenyl or alkynyl; X = H, alkylcarbonyl, CONH₂, Bz, ClCHCO, CO₂Me, PO₃H₂) are prepared as plant-growth stimulators. Thus, a mixture of 8.91 g Me₂NCH₂CH₂OH, 11.45g H₂C:CHCH₂Cl and 30 mL Et₂O was stirred for 2 days to give [H₂C:CHCH₂NMe₂CH₂CH₂OH]⁺Cl⁻ (I). In pot expts., 0.3 mM I increased in rice the root length by 24% and the length of the overground portion by 4%, as compared to controls.

IT 106579-40-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as plant-growth stimulator)

RN 106579-40-2 CAPLUS

CN Ethanaminium, N-ethyl-2-[(methoxycarbonyl)oxy]-N,N-dimethyl-, chloride
(9CI) (CA INDEX NAME)

● Cl⁻

L5 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:88143 CAPLUS

DOCUMENT NUMBER: 104:88143

TITLE: Glycerol derivatives and their pharmaceutical use

INVENTOR(S): Nomura, Hiroaki; Nishikawa, Kohei; Tsushima, Susumu

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd. , Japan

SOURCE: Eur. Pat. Appl., 219 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 157609 | A2 | 19851009 | EP 1985-302202 | 19850329 |
| EP 157609 | A3 | 19870128 | | |
| EP 157609 | B1 | 19921014 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| WO 8504398 | A1 | 19851010 | WO 1984-JP163 | 19840403 |
| W: MC | | | | |
| WO 8602349 | A1 | 19860424 | WO 1984-JP476 | 19841011 |
| W: MC | | | | |
| WO 8604894 | A1 | 19860828 | WO 1985-JP62 | 19850215 |
| W: MC | | | | |
| AT 81501 | E | 19921015 | AT 1985-302202 | 19850329 |
| PRIORITY APPLN. INFO.: | | | WO 1984-JP163 | A 19840403 |
| | | | WO 1984-JP476 | A 19841011 |
| | | | WO 1985-JP62 | A 19850215 |
| | | | EP 1985-302202 | A 19850329 |

AB R1OCH2CHR2CH2ZCOZ1Z2Z3R3 [I; R1 = alkyl, alkylcarbamoyl; R2 = H, (un)modified OH, amino, cyclic amino; R3 = H, alkyl, aralkyl; Z, Z1 = O, S, (un)substituted imino; Z2 = bond, (un)substituted alkylene; Z3 = imino, N heterocycle; when Z1 = imino, it may form a ring with Z or R3] (>170 compds) were prepared Thus, Me(CH2)17OCH2CH(CH2R4)OCH2Ph (II, R4 = OH) was esterified with PhO2CCl to give II (R4 = PhO2CO) which was treated with Me2NCH2CH2NH2 to give II (R4 = Me2NCH2CH2NHCO2). The latter was successively debenzylated by hydrogenation over Pd/C, acetylated, and quaternized with MeI to give Me(CH2)17OCH2CH(OAc)CH2O2CNACH2CH2N+Me3I- (III). At 3 + 10-6M III totally inhibited blood platelet aggregation. I are also effective antihypotensives in mice at 0.1-1.0 mg/kg i.v.

IT 100488-49-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

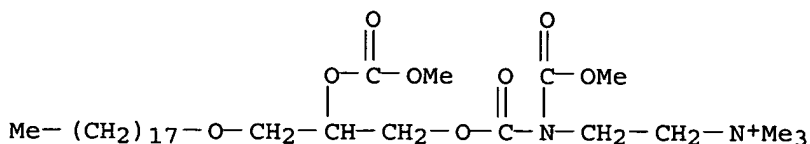
(preparation of, as antihypotensive and platelet aggregation inhibitor)

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RN 100488-49-1 CAPLUS

CN 2,4,7-Trioxa-9-azaundecan-11-aminium, 9-(methoxycarbonyl)-N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3,8-dioxo-, iodide (9CI) (CA INDEX NAME)

● I⁻

L5 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:453484 CAPLUS

DOCUMENT NUMBER: 99:53484

TITLE: Phospholipid derivatives and their pharmaceutical composition

INVENTOR(S): Teraji, Tsutomu; Todo, Eishiro; Shimazaki, Norihiko; Oku, Teruo; Namiki, Takayuki

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 59 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| EP 70433 | A1 | 19830126 | EP 1982-105875 | 19820701 |
| EP 70433 | B1 | 19851127 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| US 4493832 | A | 19850115 | US 1982-391918 | 19820624 |
| JP 58013592 | A2 | 19830126 | JP 1982-113353 | 19820630 |
| JP 02059833 | B4 | 19901213 | | |

PRIORITY APPLN. INFO.: GB 1981-20612 A 19810703

AB Antihypertensive (no data) RCH₂CH(OCO₂R₁)CH₂OP(O)(OR₂)OnXR₃ (R = alkyl, alkoxy, alkylthio, aralkoxy, acylamino; R₁ = alkyl, aralkyl; R₂ = H, alkyl; R₃ = alkylammonium, pyridinium; X = alkylene; n = 0, 1) were prepared. Thus, Me(CH₂)₁₁OCH₂CH(OH)CH₂OCPH₃ was treated with ClCO₂Me and detritylated to give Me(CH₂)₁₁OCH₂CH(OCO₂Me)CH₂OH which was treated with BrCH₂CH₂P(O)Cl₂ to give Me(CH₂)₁₁OCH₂CH(OCO₂Me)CH₂OP(O)(R₄)OCH₂CH₂Br (I, R₄ = Cl). Hydrolysis of I (R₄ = Cl) gave I (R₄ = OH) which was treated with Me₃N to give Me(CH₂)₁₁OCH₂CH(OCO₂Me)CH₂OP(O)(O⁻)CH₂CH₂N⁺Me₃.

IT 86478-42-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and debenzoylation of)

RN 86478-42-4 CAPLUS

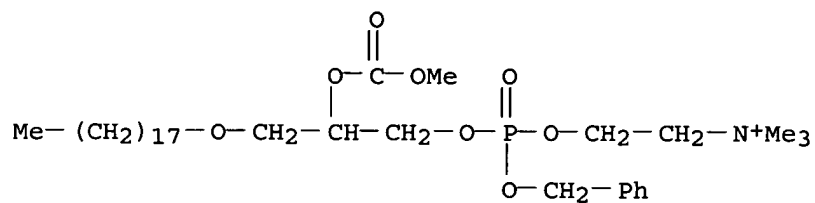
CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3-oxo-8-(phenylmethoxy)-, salt with 2,4,6-trinitrophenol (1:1), 8-oxide (9CI) (CA INDEX NAME)

CM 1

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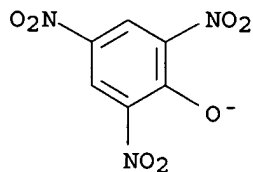
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CRN 86478-41-3
CMF C35 H65 N O8 P



CM 2

CRN 14798-26-6
CMF C6 H2 N3 O7

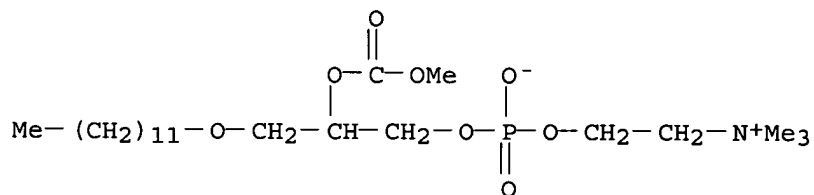


IT 86478-17-3P 86478-19-5P 86478-20-8P
86478-21-9P 86478-22-0P 86478-23-1P
86478-26-4P 86478-28-6P 86478-35-5P
86478-36-6P 86478-37-7P 86478-38-8P
86478-39-9P 185799-35-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

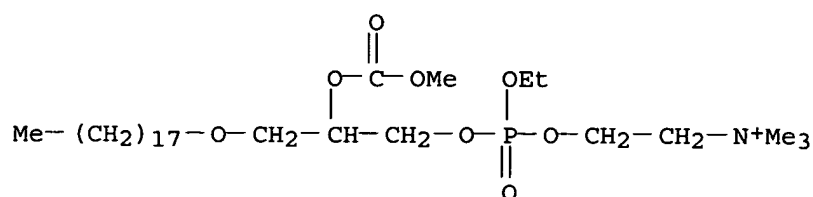
RN 86478-17-3 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-[(dodecyloxy)methyl]-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



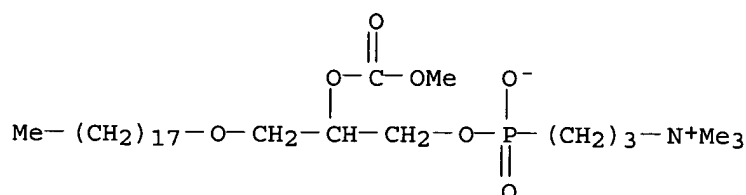
RN 86478-19-5 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-ethoxy-N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3-oxo-, bromide, 8-oxide (9CI) (CA INDEX NAME)



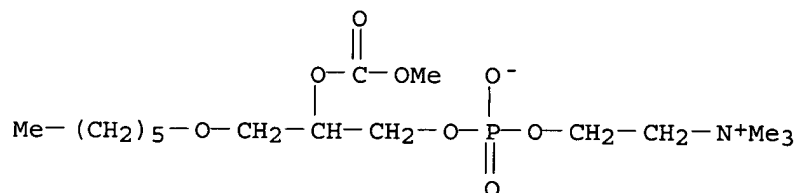
RN 86478-20-8 CAPLUS

CN 2,4,7-Trioxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



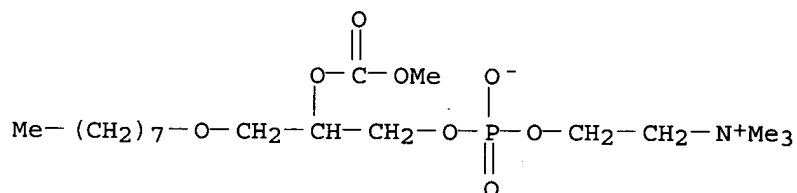
RN 86478-21-9 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-[(hexyloxy)methyl]-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



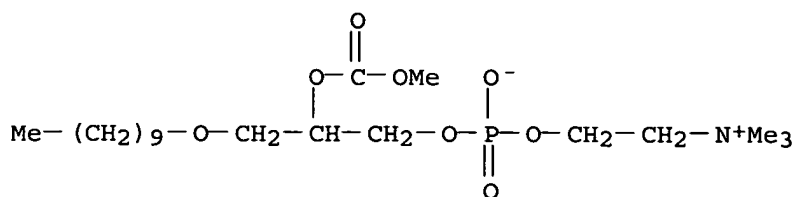
RN 86478-22-0 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-5-[(octyloxy)methyl]-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



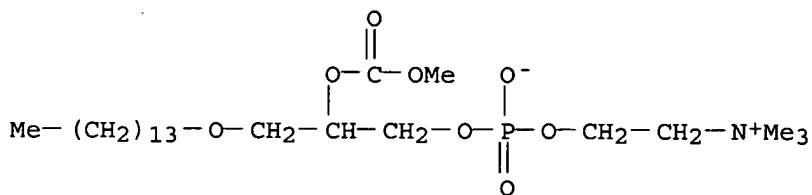
RN 86478-23-1 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-[(decyloxy)methyl]-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



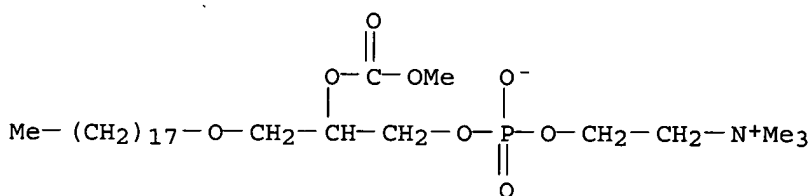
RN 86478-26-4 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-3-oxo-5-[(tetradecyloxy)methyl]-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



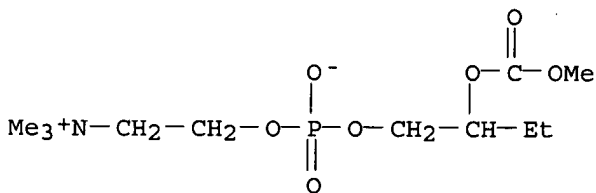
RN 86478-28-6 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



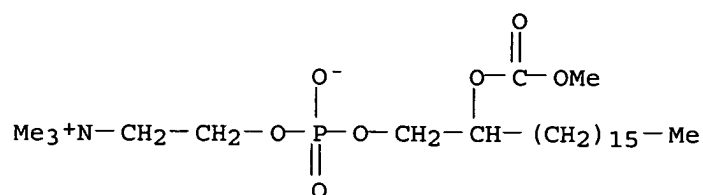
RN 86478-35-5 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-ethyl-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



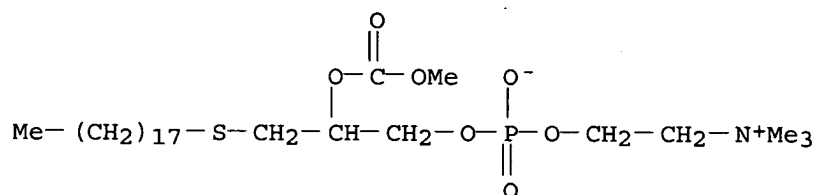
RN 86478-36-6 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-hexadecyl-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



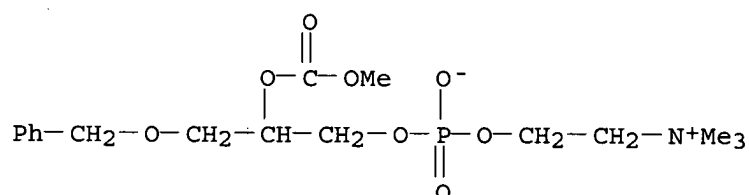
RN 86478-37-7 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-5-[(octadecylthio)methyl]-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



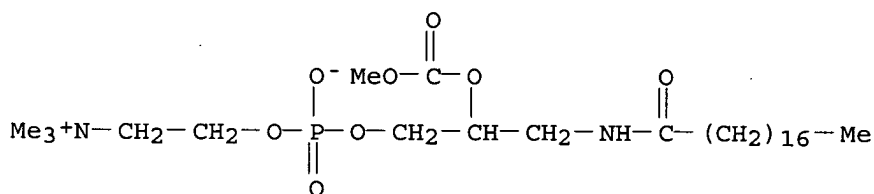
RN 86478-38-8 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-3-oxo-5-[(phenylmethoxy)methyl]-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



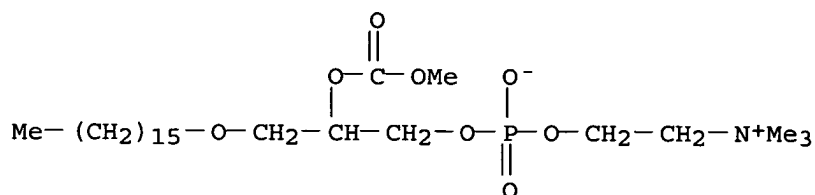
RN 86478-39-9 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-3-oxo-5-[[[(1-oxooctadecyl)amino]methyl]-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



RN 185799-35-3 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-[(hexadecyloxy)methyl]-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



L5 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1971:529443 CAPLUS

DOCUMENT NUMBER: 75:129443

TITLE: Derivatives based on 2-alkoxy-5-alkylbenzyl chlorides and methyl 2-(chloromethyl)-4-alkylphenyl carbonates
 AUTHOR(S): Chernyavskaya, T. A.; Romadane, I.; Konycheva, V. V.; Salova, I. V.

CORPORATE SOURCE: Rzh. Politekh. Inst., Riga, USSR

SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (1971), (3), 352-5

CODEN: LZAKAM; ISSN: 0002-3248

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI For diagram(s), see printed CA Issue.

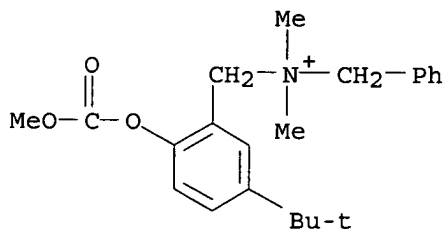
AB Substituted benzyl chlorides (I, X = Cl) reacted with NH_4SCN to give 63-82% I (X = SCN, R = alkyl, and $\text{R}_1 = \text{CO}_2\text{Me}$ or alkyl). I (X = Cl) and tertiary amines R_2N gave quaternary ammonium salts (I, X = $\text{NR}_2^+ \text{Cl}^-$).

IT 33859-34-6P 33859-35-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 33859-34-6 CAPLUS

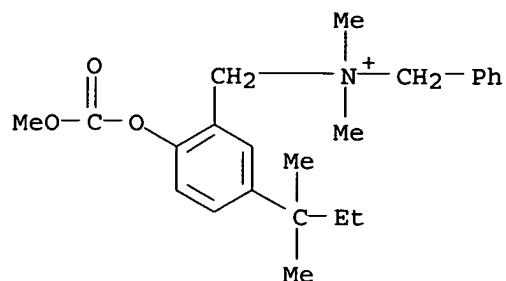
CN Ammonium, benzyl(5-tert-butylsalicyl)dimethyl-, chloride, methyl carbonate (ester) (8CI) (CA INDEX NAME)



● Cl^-

RN 33859-35-7 CAPLUS

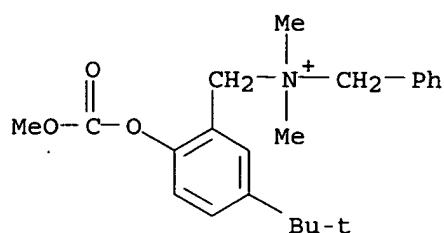
CN Ammonium, benzyldimethyl(5-tert-pentylsalicyl)-, chloride, methyl carbonate (ester) (8CI) (CA INDEX NAME)



● Cl⁻

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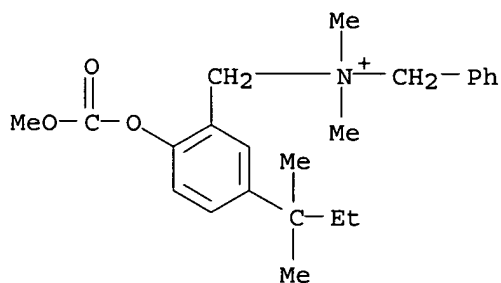
L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1971:529443 CAPLUS
 DOCUMENT NUMBER: 75:129443
 TITLE: Derivatives based on 2-alkoxy-5-alkylbenzyl chlorides and methyl 2-(chloromethyl)-4-alkylphenyl carbonates
 AUTHOR(S): Chernyavskaya, T. A.; Romadane, I.; Konycheva, V. V.; Salova, I. V.
 CORPORATE SOURCE: Rzh. Politekh. Inst., Riga, USSR
 SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (1971), (3), 352-5
 CODEN: LZAKAM; ISSN: 0002-3248
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI For diagram(s), see printed CA Issue.
 AB Substituted benzyl chlorides (I, X = Cl) reacted with NH₄SCN to give 63-82% I (X = SCN, R = alkyl, and R₁ = CO₂Me or alkyl). I (X = Cl) and tertiary amines R₂3N gave quaternary ammonium salts (I, X = NR₂3+ Cl⁻).
 IT 33859-34-6P 33859-35-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 33859-34-6 CAPLUS
 CN Ammonium, benzyl(5-tert-butylsalicyl)dimethyl-, chloride, methyl carbonate (ester) (8CI) (CA INDEX NAME)



● Cl⁻

RN 33859-35-7 CAPLUS

CN Ammonium, benzyldimethyl(5-tert-pentylsalicyl)-, chloride, methyl carbonate (ester) (8CI) (CA INDEX NAME)



● Cl⁻

=> d 18 ibib abs hitstr tot

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:145678 CAPLUS

DOCUMENT NUMBER: 124:216649

TITLE: Conformational analysis of acetylcholine and related choline **esters**

AUTHOR(S): Frydenvang, Karla; Jensen, Birthe

CORPORATE SOURCE: Dep. Med. Chem., R. Danish Sch. Pharmacy, Copenhagen, DK-2100, Den.

SOURCE: Acta Crystallographica, Section B: Structural Science (1996), B52(1), 184-93

CODEN: ASBSDK; ISSN: 0108-7681

PUBLISHER: Munksgaard

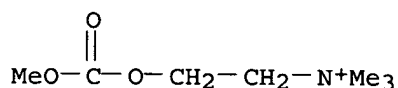
DOCUMENT TYPE: Journal

LANGUAGE: English

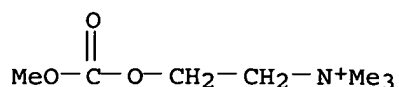
AB The crystal structures of carbamoylcholine [2-(carbamoyloxy)-N,N,N-trimethylethanaminium] chloride, bromide and iodide, methoxycarbonylcholine [2-(methoxycarbonyloxy)-N,N,N-trimethylethanaminium] iodide, acetylcholine [2-(acetyloxy)-N,N,N-trimethylethanaminium] chloride and succinylcholine {2,2'-[(1,4-dioxo-1,4-

butanediyl)bis(oxy)]bis(N,N,N-trimethylethanaminium)} iodide were redetd. at 105 K to obtain detailed and accurate information on the geometry of choline **esters** and to elucidate the conformationally dependent changes of geometry. Atomic coordinates are given. The conformational flexibility and the preferred conformations are elucidated based on results obtained from x-ray crystallog. studies and mol. mechanics (MM2) calcns. The usefulness of mol. mechanics calcns. for quaternary ammonium ions is discussed.

IT 70384-36-0, Methoxycarbonylcholine iodide
 RL: PRP (Properties)
 (crystal structure and conformational anal. of)
 RN 70384-36-0 CAPLUS
 CN Ethanaminium, 2-[(methoxycarbonyl)oxy]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)



L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1980:603798 CAPLUS
 DOCUMENT NUMBER: 93:203798
 TITLE: Ab initio calculations of electrostatic potentials and deformation densities for a series of choline **ester** model systems
 AUTHOR(S): Johansen, Helge; Rettrup, Sten; Jensen, Birthe
 CORPORATE SOURCE: Dep. Chem. Phys., Tech. Univ. Denmark, Lyngby, DK-2800, Den.
 SOURCE: Theoretica Chimica Acta (1980), 55(4), 267-81
 CODEN: TCHAAM; ISSN: 0040-5744
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Ab initio LCAO-MO-SCF calcns. using a double zeta basis set are performed for AcOMe, NH₂CO₂Me, (MeO)₂CO, and CF₃CO₂Me as models for the corresponding choline **esters**. The systems are compared using population analyses, electron d. differences, electrostatic potentials and potential differences. The significance of the electrostatic potential in connection with crystal structure and packing is examined. The differences in the proton affinity of the compds. are correlated to differences in the potentials.
 IT 70384-36-0
 RL: PRP (Properties)
 (electrostatic mol. potentials of, MO calcns. of)
 RN 70384-36-0 CAPLUS
 CN Ethanaminium, 2-[(methoxycarbonyl)oxy]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)



● I⁻

=> s ammonium alkylcarbonate

341006 AMMONIUM

396 AMMONIUMS

341151 AMMONIUM

(AMMONIUM OR AMMONIUMS)

49 ALKYL CARBONATE

26 ALKYL CARBONATES

71 ALKYL CARBONATE

(ALKYL CARBONATE OR ALKYL CARBONATES)

L9 0 AMMONIUM ALKYL CARBONATE

(AMMONIUM (W) ALKYL CARBONATE)

=> s quaternary ammonium alkylcarbonate

118561 QUATERNARY

330 QUATERNARIES

118702 QUATERNARY

(QUATERNARY OR QUATERNARIES)

341006 AMMONIUM

396 AMMONIUMS

341151 AMMONIUM

(AMMONIUM OR AMMONIUMS)

49 ALKYL CARBONATE

26 ALKYL CARBONATES

71 ALKYL CARBONATE

(ALKYL CARBONATE OR ALKYL CARBONATES)

L10 0 QUATERNARY AMMONIUM ALKYL CARBONATE

(QUATERNARY (W) AMMONIUM (W) ALKYL CARBONATE)

=> s alkylcarbonate

49 ALKYL CARBONATE

26 ALKYL CARBONATES

L11 71 ALKYL CARBONATE

(ALKYL CARBONATE OR ALKYL CARBONATES)

=> s l10 and ammonium

341006 AMMONIUM

396 AMMONIUMS

341151 AMMONIUM

(AMMONIUM OR AMMONIUMS)

L12 0 L10 AND AMMONIUM

=> s l10 and amine

252121 AMINE

238672 AMINES

386481 AMINE

(AMINE OR AMINES)

L13 0 L10 AND AMINE

=> s l10 and ester

556171 ESTER

414561 ESTERS

776373 ESTER

(ESTER OR ESTERS)

L14 0 L10 AND ESTER

=> s l11 and ester

556171 ESTER

414561 ESTERS

776373 ESTER

(ESTER OR ESTERS)

L15 20 L11 AND ESTER

=> s l11 and ammonium

341006 AMMONIUM

396 AMMONIUMS

341151 AMMONIUM

(AMMONIUM OR AMMONIUMS)

L16 4 L11 AND AMMONIUM

=> s l11 and amine

252121 AMINE

238672 AMINES

386481 AMINE

(AMINE OR AMINES)

L17 5 L11 AND AMINE

=> d his

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FILE 'REGISTRY' ENTERED AT 16:02:04 ON 29 JAN 2005

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 46 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:02:28 ON 29 JAN 2005

L4 24 S L3

L5 13 S L3/P

L6 23 S L4 AND PY<=2001

L7 1 S L6 AND AMINE

L8 2 S L6 AND ESTER

L9 0 S AMMONIUM ALKYL CARBONATE

L10 0 S QUATERNARY AMMONIUM ALKYL CARBONATE

L11 71 S ALKYL CARBONATE

L12 0 S L10 AND AMMONIUM

L13 0 S L10 AND AMINE

L14 0 S L10 AND ESTER

L15 20 S L11 AND ESTER

L16 4 S L11 AND AMMONIUM

L17 5 S L11 AND AMINE

=> s l11 and quaternary

118561 QUATERNARY

330 QUATERNARIES

118702 QUATERNARY

(QUATERNARY OR QUATERNARIES)

L18 4 L11 AND QUATERNARY

29/01/2005

10776368.trn

=> d 118 ibib abs hitstr tot

L18 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:21146 CAPLUS
DOCUMENT NUMBER: 126:52892
TITLE: Ink-jet recording receptor
INVENTOR(S): Suzuki, Katsumitsu; Kato, Makoto
PATENT ASSIGNEE(S): Mitsubishi Paper Mills Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

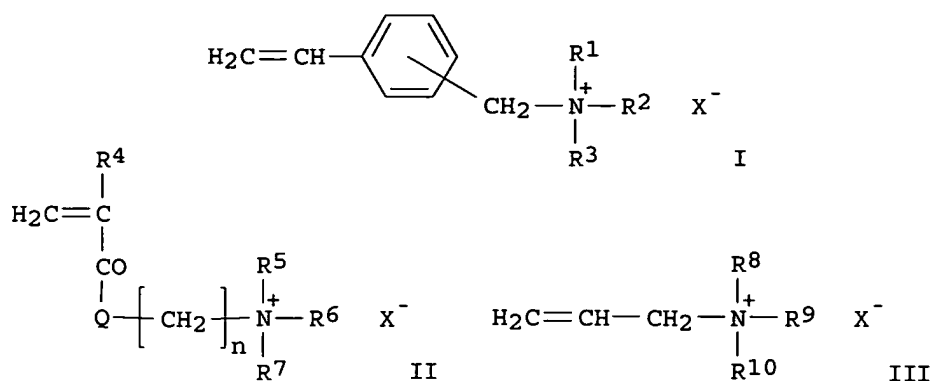
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 08267904 | A2 | 19961015 | JP 1995-70073 | 19950328 |
| PRIORITY APPLN. INFO.: | | | JP 1995-70073 | 19950328 |

AB The receptor comprises an opaque support successively coated with an ink-fixing layer containing a crosslinked copolymer with a **quaternary** ammonium salt and an ink-permeating layer containing a water-insol. binder and silica sol with primary particle size 10-100 nm dispersed in an organic solvent. The copolymer may be prepared from monomers CH₂:CR₁COQ(CH₂)_nN+R₁R₂R₃.X-, CH₂:CH(p-C₆H₄)CH₂N+R₅R₆R₇.X-, and CH₂:CHCH₂N+R₈R₉R₁₀.X- [R₁ = H, Me; Q = O, NH; R₂-10 = C1-6 alkyl benzyl, aryl; X- = halo ion, (alkyl) sulfonate, acetate, **alkylcarbonate**; n = 2-3]. The receptor shows good water resistance, ink absorption, and abrasion resistance and gives high d. full-color images with brightness.

L18 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:472936 CAPLUS
DOCUMENT NUMBER: 125:181354
TITLE: Ink-jet recording receptor
INVENTOR(S): Ikeda, Mitsuhiro; Kato, Makoto
PATENT ASSIGNEE(S): Mitsubishi Paper Mills Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 08142496 | A2 | 19960604 | JP 1994-287035 | 19941122 |
| PRIORITY APPLN. INFO.: | | | JP 1994-287035 | 19941122 |

GI



AB The receptor has an ink absorbing layer prepared by mixing a polymer (A) containing **quateryary** ammonium salt I (R1-3 = alkyl, aryl, aralkyl; X- = halo ion, sulfate, alkylsulfonate, **alkylcarbonate**) as a monomer unit and another polymer (B) containing II and/or III (R4 = H, Me; Q = O, NH; R5-7 = Me, Et; R8-10 = Me, Et, alkyl; X- = same as above; n = 2, 3) as monomer unit(s), then 3-dimensionally crosslinking the polymers by an hardening agent. The receptor shows good water resistance.

L18 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:907770 CAPLUS

DOCUMENT NUMBER: 123:313436

TITLE: Process for the preparation of 3-cyano-3,5,5-trimethylcyclohexanone [isophorone nitrile]

INVENTOR(S): Mundinger, Klaus; Laqua, Gerhard; Witzel, Tom; Merger, Franz

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

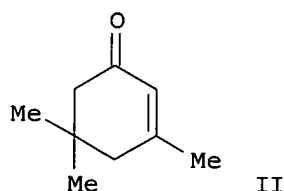
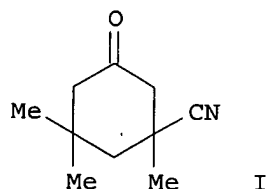
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| EP 671384 | A1 | 19950913 | EP 1995-102923 | 19950302 |
| EP 671384 | B1 | 19991103 | | |
| R: BE, DE, FR, GB | | | | |
| DE 4407487 | A1 | 19950914 | DE 1994-4407487 | 19940307 |
| US 5516928 | A | 19960514 | US 1995-395322 | 19950228 |
| PRIORITY APPLN. INFO.: | | | DE 1994-4407487 | A 19940307 |
| OTHER SOURCE(S): | CASREACT 123:313436; MARPAT 123:313436 | | | |
| GI | | | | |



AB The title compound (I), an intermediate for the monomer isophoronediamine, is prepared by a method using improved catalysts. Thus, isophorone (II) reacts with HCN to give I, at 80-180° and 0.5-20 bar, in the presence of an ammonium salt catalyst R₁R₂R₃R₄N⁺ X⁻ [R₁-R₄ = C₁-18 alkyl, C₅-8 cycloalkyl, aryl, C₇-18 aralkyl, C₂-18 hydroxyalkyl; X = OCO₂H, or OCO₂R₄ where R₄ = C₁-8 alkyl]. For example, a mixture of 3 mol HCN and 1.5 mol II was added over 60 min to a mixture of 4.5 mol II and 30 mmol Me₄N⁺ MeOCO₂⁻ at 120°. Acidification with 3.5 g 85% H₃PO₄ and distillation at 0.1 mbar gave I in 99% or 96.2% yield (based on unreacted II or fed HCN, resp.). In comparison, use of Et₄N⁺ CN⁻ catalyst gave 89.6% yield based on fed HCN. Also used as catalysts were BuMe₃N⁺ MeOCO₂⁻, and Et₃MeN⁺ MeOCO₂⁻, which gave similar results.

L18 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:537540 CAPLUS

DOCUMENT NUMBER: 109:137540

TITLE: A method for manufacturing a high-purity

quaternary ammonium hydroxide in a cation-exchanger electrochemical cell

INVENTOR(S): Aoyama, Tetsuo; Shima, Eiji; Ishikawa, Jiro

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 63057790 | A2 | 19880312 | JP 1986-197994 | 19860826 |
| PRIORITY APPLN. INFO.: | | | JP 1986-197994 | 19860826 |

OTHER SOURCE(S): MARPAT 109:137540

AB The title method involves electrolysis of RR₁R₂R₃NOCOOR₄ (R, R₁, R₂, R₃ = C₁-8 alkyl, hydroxyalkyl, C₂-9 alkoxyalkyl, aryl, or hydroxyaryl; and R₄ = alkyl or aryl). Thus, a Me₄NOH solution containing Na 0.004, Fe 0.005, K and Ca 0.002, Al, Ni, Co, Cr, Zn, and Mn ≤ 0.001, and Cl ≤ 0.01 ppm was prepared by electrolysis of tetramethylammonium monoethylcarbonate.

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L17 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:610551 CAPLUS

DOCUMENT NUMBER: 139:152071

TITLE: Oil based well fluids with high solids content

INVENTOR(S): Patel, Arvind D.; Bell, Reginald; Hoxha, Burhan; Friedheim, Jim

PATENT ASSIGNEE(S): M-I L.L.C., USA

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

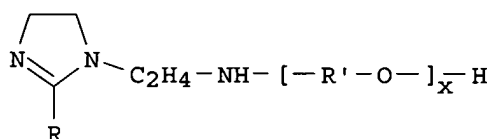
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

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    GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
    LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
    PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
    UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
RW:  GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
    KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
    FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
    BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2003158046      A1      20030821      US 2002-62854      20020131
US 6770602          B2      20040803
EP 1483353          A1      20041208      EP 2003-704080      20030131
R:   AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
    IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.:      US 2002-62854      A 20020131
                                WO 2003-US2903      W 20030131

OTHER SOURCE(S):      MARPAT 139:152071
GI

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AB A fluid having utility in petroleum wells is formulated to include: an oleaginous fluid; and an alkoxyated 1-(2-aminoethyl)-2-alkyl-2-imidazoline solids tolerance agent having the formula of (I): in which R is a C6 to C20 aliphatic group and R' is a C2 to C6 aliphatic group and x has a value from .apprx.1 to .apprx.10. Preferably R' is selected from Et and isoPr and R' is an unsatd. aliphatic group. The fluid is formulated such that the oleaginous fluid is from .apprx.30% to .apprx.99% by volume of said fluid. In one illustrative embodiment, the oleaginous fluid is composed of from .apprx.5% to .apprx.100% by volume of the oleaginous fluid of a material selected from a group consisting of diesel oil, mineral oil, synthetic oil, esters, ethers, acetals, di **alkylcarbonates**, olefins, and combinations of these and similar fluids. A nonoleaginous fluid may also be included in the formulation that is from .apprx.1% to .apprx.70% by volume of said fluid. The nonoleaginous fluid is preferably selected from sea water, a brine containing organic or inorg. dissolved salts,

a liquid containing water-miscible organic compds., and combinations thereof.

Also included in the fluid formulation may be weighting agents, fluids loss agents, viscosity agents and other similar agents used in the formulation of oil-based and invert emulsion drilling fluids.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:728069 CAPLUS

DOCUMENT NUMBER: 131:336734

TITLE: Preparation of alkylammonium tetrafluoroborates as electrolytes for battery and capacitor

29/01/2005

10776368.trn

INVENTOR(S): Ishida, Tatsukazu; Tatsuki, Yuichirou; Mita, Satoko
PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 11315055 | A2 | 19991116 | JP 1998-121276 | 19980430 |
| PRIORITY APPLN. INFO.: | | | JP 1998-121276 | 19980430 |

OTHER SOURCE(S): CASREACT 131:336734; MARPAT 131:336734

AB Title compds. R₂N+R₁R₃R₄ -BF₄ (R₁-R₃ = C₁-4 alkyl; R₄ = Me, Et) are prepared by reaction of R₂NR₁R₃ (R₁-R₃ = same as above) with (R₄O)₂CO (R₄ = Me, Et), hydrolysis of R₂N+R₁R₃R₄ -OCO₂R₄ (R₁-R₄ = same as above), and reaction of R₂N+R₁R₃R₄ -OCO₂H (R₁-R₄ = same as above) with HBF₄. NEt₃ was reacted with (MeO)₂CO in MeOH at 120° for 15 h, hydrolyzed in H₂O at 60° under 20 mmHg, and reacted with HBF₄/H₂O at 25° to give 80% triethylmethyllammonium tetrafluoroborate with ≥99% purity..

L17 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:34331 CAPLUS
DOCUMENT NUMBER: 120:34331
TITLE: Gear oil compositions for automobiles
INVENTOR(S): Kunugi, Toshio; Watanabe, Yoshihisa
PATENT ASSIGNEE(S): Cosmo Sogo Kenkyusho Kk, Japan; Cosmo Oil Co Ltd
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 05209184 | A2 | 19930820 | JP 1991-48719 | 19910222 |
| PRIORITY APPLN. INFO.: | | | JP 1991-48719 | 19910222 |

AB The composition comprises a base oil blended with (1) 0.1-10 S- or P-containing extreme pressure agent, (2) 1-20 alkali metal borate hydrate, and (3) 5-50 weight% components selected from monoester, diester, polyolester, **alkylcarbonate**, polyoxyethylene alkylether, and polyoxyethylene alkylphenylether.

L17 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:109057 CAPLUS
DOCUMENT NUMBER: 118:109057
TITLE: Water treatment method using polymeric compounds
INVENTOR(S): Ambler, Philip William; Hodgson, Philip Kenneth
Gordon; Stewart, Nevin John
PATENT ASSIGNEE(S): British Petroleum Co. PLC, UK
SOURCE: Brit. UK Pat. Appl., 9 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

GB 2248843 A1 19920422 GB 1991-15422 19910717
PRIORITY APPLN. INFO.: GB 1990-16061 A 19900721
AB Polymers produced from aminoalkyl(meth)acrylates having **amine**
groups optionally blocked by an **alkylcarbonate** group followed by
unblocking of the **amine** group, are used to destabilize
oil-in-water emulsions. The compds. are suitable for destabilizing fresh
or saltwater emulsions of crude oil and/or petroleum products.

L17 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:560565 CAPLUS
DOCUMENT NUMBER: 115:160565
TITLE: Catalyzed dialkyl dicarbonate compositions as blowing
agents for polymers
INVENTOR(S): Franklin, Ralph; Parr, William John E.; Fesmam,
Gerald; Jacobs, Barry Alan
PATENT ASSIGNEE(S): AKZO N. V., Neth.
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------|------|----------|-----------------|----------------|
| EP 400709 | A2 | 19901205 | EP 1990-201261 | 19900518 |
| EP 400709 | A3 | 19910814 | | |
| R: CH, DE, ES, FR, GB, IT, LI, NL | | | | |
| US 4983320 | A | 19910108 | US 1989-353852 | 19890518 |
| CA 2016535 | AA | 19901118 | CA 1990-2016535 | 19900511 |
| JP 03068636 | A2 | 19910325 | JP 1990-128937 | 19900518 |
| PRIORITY APPLN. INFO.: | | | US 1989-353852 | A 19890518 |

OTHER SOURCE(S): MARPAT 115:160565
AB A catalyzed blowing agent composition, useful for manufacturing polymeric
foams,

comprises (A) ≥ 1 alkyl-substituted dicarbonate and (B) a
dicarbonate decomposition catalyst comprising a tertiary **amine** having
 ≥ 1 sterically accessible N atom which exhibits high
nucleophilicity. The use of dicarbonates as blowing agents is desirable
based on environment considerations. Thus, an automotive-type flexible
polyurethane foam prepared using 3.0 parts diisopropyl dicarbonate (I) as an
auxiliary blowing agent and 0.30 weight parts triethylenediamine catalyst
showed d. 1.25 lbs/ft³, breathability 6.3 ft³/min, and indentation force
deflection 15.9 lbs, compared with 1.25, 6.1, and 23.3, resp., for a
similar urethane foam using the more hazardous CH₂Cl₂ instead of I.

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L16 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:21146 CAPLUS
DOCUMENT NUMBER: 126:52892
TITLE: Ink-jet recording receptor
INVENTOR(S): Suzuki, Katsumitsu; Kato, Makoto
PATENT ASSIGNEE(S): Mitsubishi Paper Mills Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 08267904 | A2 | 19961015 | JP 1995-70073 | 19950328 |

PRIORITY APPLN. INFO.: JP 1995-70073 19950328

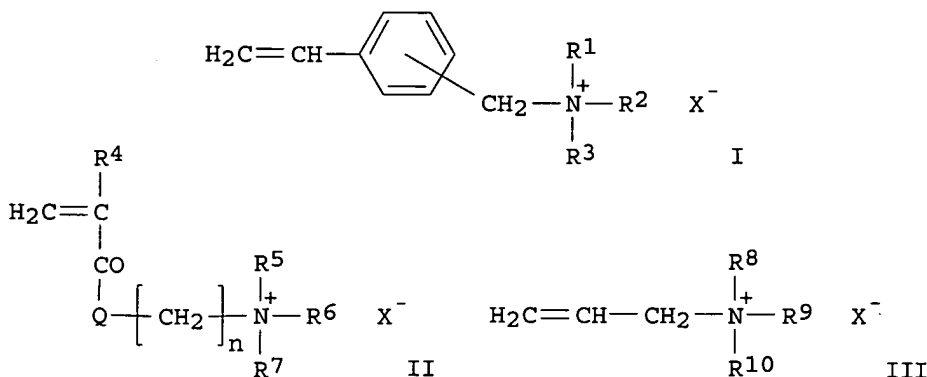
AB The receptor comprises an opaque support successively coated with an ink-fixing layer containing a crosslinked copolymer with a quaternary ammonium salt and an ink-permeating layer containing a water-insol. binder and silica sol with primary particle size 10-100 nm dispersed in an organic solvent. The copolymer may be prepared from monomers $\text{CH}_2:\text{CR}_1\text{COQ}(\text{CH}_2)_n\text{N}+\text{R}_1\text{R}_2\text{R}_3.\text{X}^-$, $\text{CH}_2:\text{CH}(\text{p-C}_6\text{H}_4)\text{CH}_2\text{N}+\text{R}_5\text{R}_6\text{R}_7.\text{X}^-$, and $\text{CH}_2:\text{CHCH}_2\text{N}+\text{R}_8\text{R}_9\text{R}_{10}.\text{X}^-$ [$\text{R}_1 = \text{H, Me; Q} = \text{O, NH; R}_2\text{-R}_{10} = \text{C}_1\text{-6 alkyl benzyl, aryl; X}^- = \text{halo ion, (alkyl) sulfonate, acetate, alkylcarbonate; n} = 2\text{-3}$]. The receptor shows good water resistance, ink absorption, and abrasion resistance and gives high d. full-color images with brightness.

L16 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:472936 CAPLUS
 DOCUMENT NUMBER: 125:181354
 TITLE: Ink-jet recording receptor
 INVENTOR(S): Ikeda, Mitsuhiro; Kato, Makoto
 PATENT ASSIGNEE(S): Mitsubishi Paper Mills Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 08142496 | A2 | 19960604 | JP 1994-287035 | 19941122 |

PRIORITY APPLN. INFO.: JP 1994-287035 19941122
 GI



AB The receptor has an ink absorbing layer prepared by mixing a polymer (A) containing quaternary ammonium salt I ($\text{R}_1\text{-R}_3 = \text{alkyl, aryl, aralkyl; X}^- = \text{halo ion, sulfate, alkylsulfonate, alkylcarbonate}$) as a monomer unit and another polymer (B) containing II and/or III ($\text{R}_4 = \text{H, Me; Q} = \text{O, NH; R}_5\text{-R}_7 = \text{Me, Et; R}_8\text{-R}_{10} = \text{Me, Et, alkyl; X}^- = \text{same as above; n} = 2, 3$) as monomer unit(s), then 3-dimensionally crosslinking the polymers by an

hardening agent. The receptor shows good water resistance.

L16 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:907770 CAPLUS

DOCUMENT NUMBER: 123:313436

TITLE: Process for the preparation of 3-cyano-3,5,5-trimethylcyclohexanone [isophorone nitrile]

INVENTOR(S): Mundinger, Klaus; Laqua, Gerhard; Witzel, Tom; Merger, Franz

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

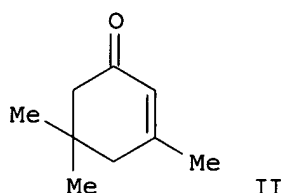
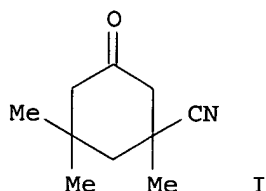
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| EP 671384 | A1 | 19950913 | EP 1995-102923 | 19950302 |
| EP 671384 | B1 | 19991103 | | |
| R: BE, DE, FR, GB | | | | |
| DE 4407487 | A1 | 19950914 | DE 1994-4407487 | 19940307 |
| US 5516928 | A | 19960514 | US 1995-395322 | 19950228 |
| PRIORITY APPLN. INFO.: | | | DE 1994-4407487 | A 19940307 |
| OTHER SOURCE(S): | CASREACT 123:313436; MARPAT 123:313436 | | | |
| GI | | | | |



AB The title compound (I), an intermediate for the monomer isophoronediamine, is prepared by a method using improved catalysts. Thus, isophorone (II) reacts with HCN to give I, at 80-180° and 0.5-20 bar, in the presence of an **ammonium** salt catalyst R₁R₂R₃R₄N⁺ X⁻ [R₁-R₄ = C₁-18 alkyl, C₅-8 cycloalkyl, aryl, C₇-18 aralkyl, C₂-18 hydroxyalkyl; X = OCO₂H, or OCO₂R₄ where R₄ = C₁-8 alkyl]. For example, a mixture of 3 mol HCN and 1.5 mol II was added over 60 min to a mixture of 4.5 mol II and 30 mmol Me₄N⁺ MeOCO₂⁻ at 120°. Acidification with 3.5 g 85% H₃PO₄ and distillation at 0.1 mbar gave I in 99% or 96.2% yield (based on unreacted II or fed HCN, resp.). In comparison, use of Et₄N⁺ CN⁻ catalyst gave 89.6% yield based on fed HCN. Also used as catalysts were BuMe₃N⁺ MeOCO₂⁻, and Et₃MeN⁺ MeOCO₂⁻, which gave similar results.

L16 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:537540 CAPLUS

DOCUMENT NUMBER: 109:137540

TITLE: A method for manufacturing a high-purity quaternary **ammonium** hydroxide in a cation-exchanger electrochemical cell

INVENTOR(S): Aoyama, Tetsuo; Shima, Eiji; Ishikawa, Jiro

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

29/01/2005

10776368.trn

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 63057790 | A2 | 19880312 | JP 1986-197994 | 19860826 |
| PRIORITY APPLN. INFO.: | | | JP 1986-197994 | 19860826 |

OTHER SOURCE(S): MARPAT 109:137540

AB The title method involves electrolysis of RR1R2R3NOCOOR4 (R, R1, R2, R3 = C1-8 alkyl, hydroxyalkyl, C2-9 alkoxyalkyl, aryl, or hydroxyaryl; and R4 = alkyl or aryl). Thus, a Me4NOH solution containing Na 0.004, Fe 0.005, K and Ca 0.002, Al, Ni, Co, Cr, Zn, and Mn \leq 0.001, and Cl \leq 0.01 ppm was prepared by electrolysis of tetramethylammonium monoethylcarbonate.

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COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 150.93 | 312.47 |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| -21.17 | -21.17 |

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